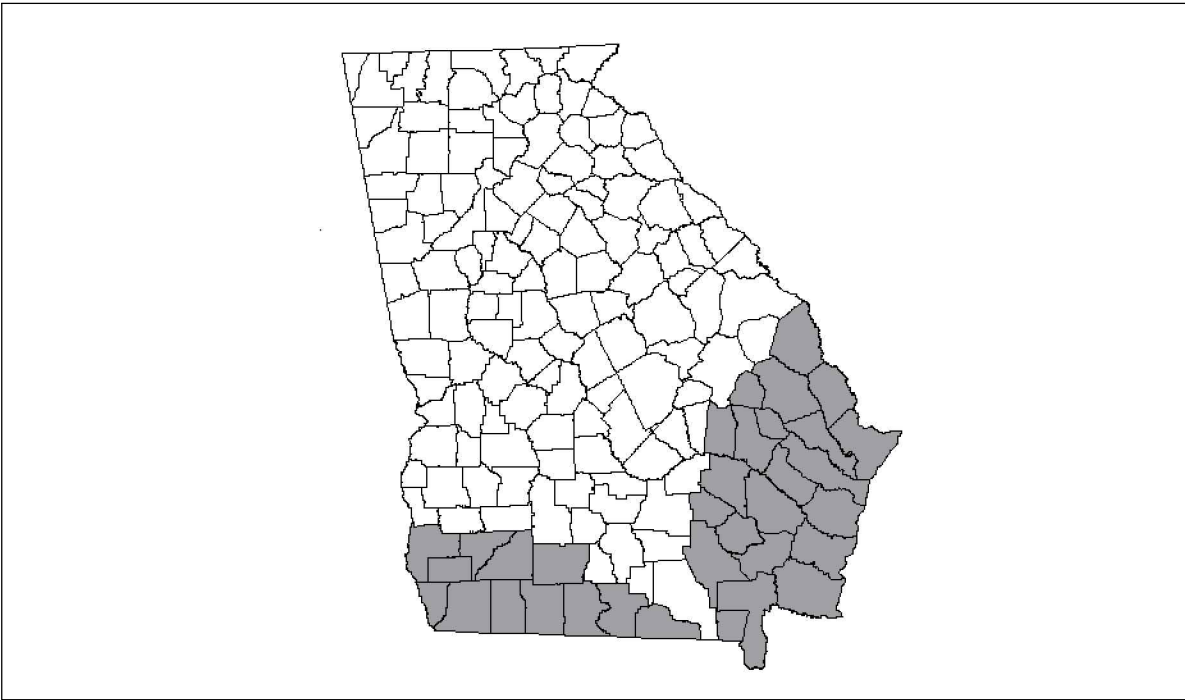


UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

GEORGIA STANDARD DRAWINGS - 20' WIDE, DEEP BIN, STAND
ALONE COMPOST FACILITY CONSTRUCTED WITH 6" X 6" POSTS

1. THE FOLLOWING DRAWINGS WERE PREPARED IN ACCORDANCE WITH PRACTICE CODES
317-COMPOSTING FACILITY AND GEORGIA BUILDING CODE (INTERNATIONAL BUILDING CODE 2006)
2. DESIGN DATA REQUIRED BY IBC 2006:

A) ROOF LIVE LOAD – 20 PSF.
B) BASIC WIND SPEED OF 90 MPH AND GROUND SNOW LOAD OF 10 PSF OR BASIC WIND SPEED
OF 100 MPH AND NO SNOW LOAD.
C) IMPORTANCE FACTOR, I=0.87
D) WIND EXPOSURE CATEGORY C.
E) INTERNAL PRESSURE COEFFICIENT = 0.55
3. THIS DESIGN IS NOT INTENDED FOR USE IN EXTREME SOUTH AND EAST COUNTIES OF THE STATE
THAT ARE SUBJECT TO HURRICANE WIND LOADS (SEE MAP BELOW)
4. THIS DESIGN IS NOT INTENDED FOR CONSTRUCTION ON AN ISOLATED HILL, RIDGE, OR ESCARPMENT
IN ANY REGION OF THE STATE.
5. ANY CHANGES TO THESE DRAWINGS MUST BE APPROVED BY AN ENGINEER WITH JOB APPROVAL
LEVEL IV OR GREATER.
6. NO ADDITIONS SHOULD BE MADE TO STRUCTURE WITHOUT APPROVAL FROM NRCS.



THIS DESIGN IS NOT INTENDED FOR USE IN COUNTIES SUBJECT TO HURRICANE
WIND LOADS SHADED GRAY ABOVE.

THE NATURAL RESOURCES CONSERVATION SERVICE
HELPING PEOPLE HELP THE LAND

COMPOST FACILITY
COUNTY, GEORGIA

PRE-CONSTRUCTION CERTIFICATION:

THE _____ COMPOSTING FACILITY HAS BEEN CONSTRUCTED
IN ACCORDANCE WITH THE FOLLOWING DRAWINGS AND PRACTICE
CODES 317. ALL CHANGES HAVE BEEN APPROVED BY AN ENGINEER
WITH JOB APPROVAL AUTHORITY LEVEL IV OR GREATER. ALL ADDITIONS
HAVE BEEN APPROVED BY NRCS.

OWNER	DATE	NRCS REPRESENTATIVE	DATE	ENGINEER (IF REQUIRED)	DATE
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AS-BUILT CERTIFICATION:

THIS PRACTICE HAS BEEN CONSTRUCTED IN ACCORDANCE TO THESE
PLANS AND MEETS NRCS STANDARDS AND SPECIFICATIONS.

NRCS REPRESENTATIVE	DATE	ENGINEER (IF REQUIRED)	DATE
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COMPOSTING FACILITY:

JOB CLASS: _____

INDEX TO DRAWINGS:

- SHEET 1 - COVER SHEET
- SHEET 2 - PLAN VIEW
ELEVATION VIEW
FRONT VIEW
GENERAL NOTES
- SHEET 3 - ROOF FRAMING PLAN
- SHEET 4 - GIRDER AND RAFTER TO POST
CONNECTIONS
HURRICANE STRAP
HURRICANE CLIP
- SHEET 5 - WOOD TREATMENT TABLE
FIBER REINFORCED CONTRACTION JOINT
CONCRETE POST FOOTING DETAIL
MECHANICAL ANCHOR POST CONCRETE
FOOTING DETAIL



REVISIONS		
DATE	APPROVED	TITLE
08/05	H. MCFARLAND	STATE ENGINEER
01/06	H. MCFARLAND	STATE ENGINEER
07/07	H. MCFARLAND	STATE ENGINEER
06/11	J. HOLLOWAY	STATE ENGINEER
07/13	D. ROBERTS	ACTING STATE ENGINEER

Date	07/07
Designed	W. Brown
Drawn	S. Rogers H. McFarland
Checked	J. Holloway
Approved	

GEORGIA COMPOSTING FACILITY
(Stand Alone Structure with Deep Bins)



File No.
ga-eng-317-c1_rev_072013

Drawing No.
Cover

July 2013

Sheet 1 of 5

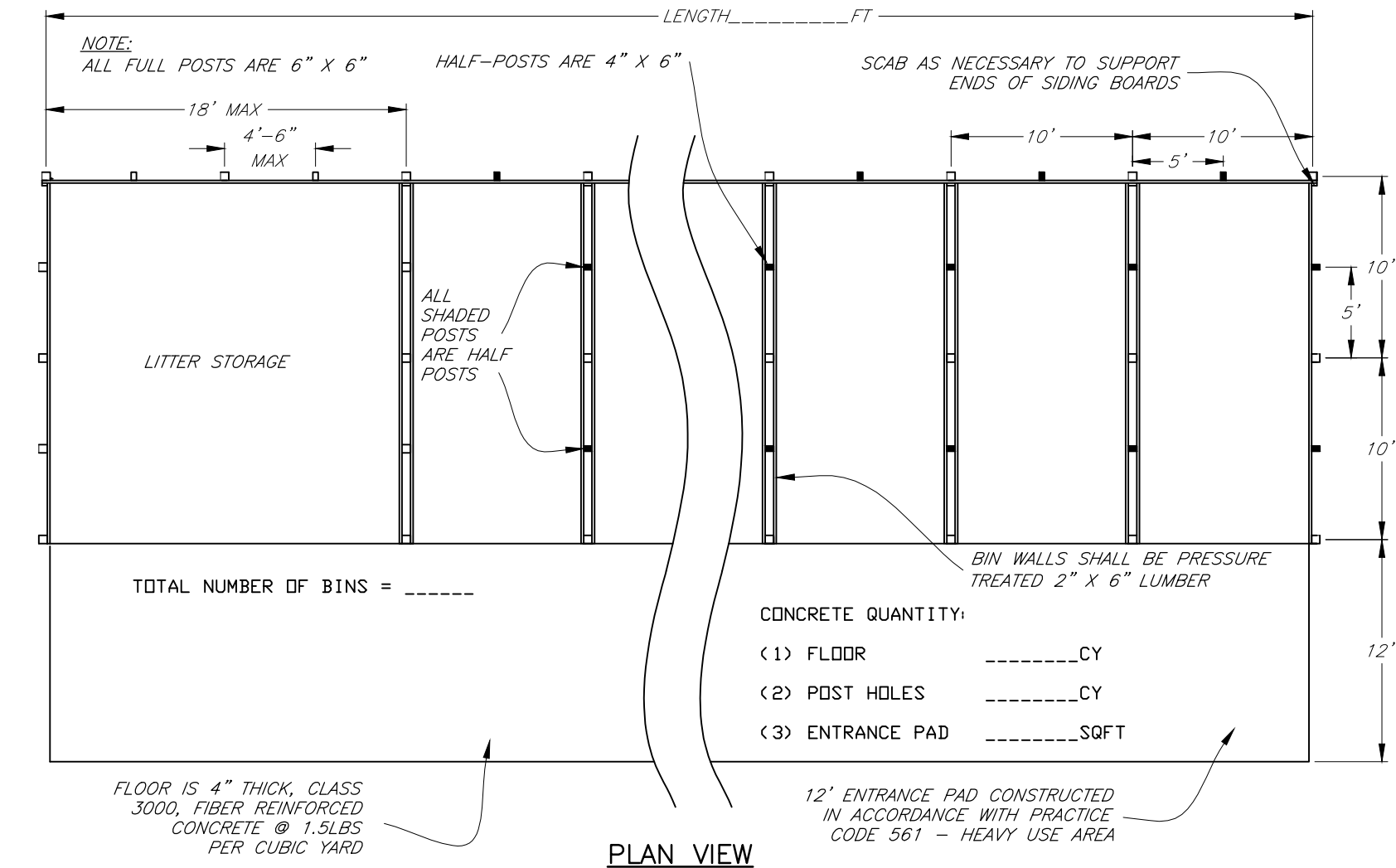
GEORGIA COMPOSTING FACILITY
(Stand Alone Structure with Deep Bins)



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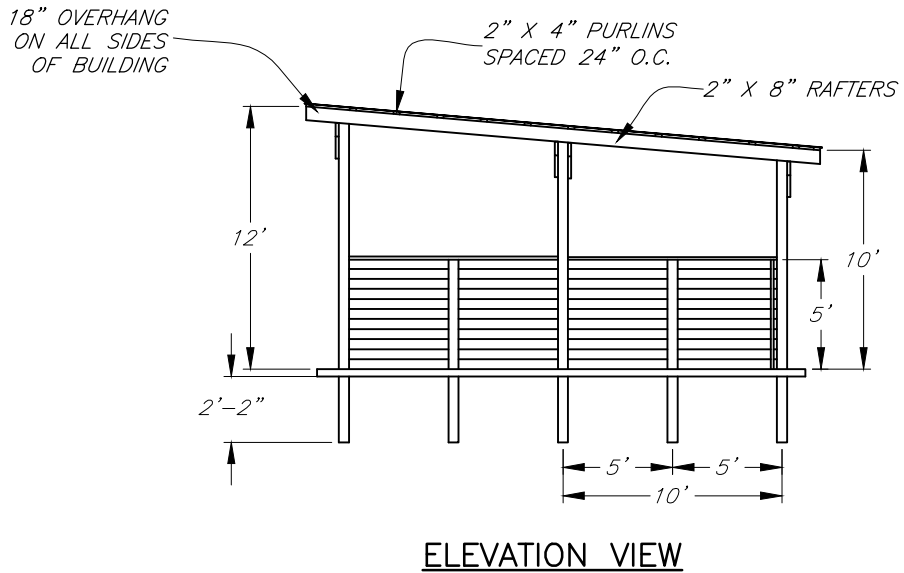
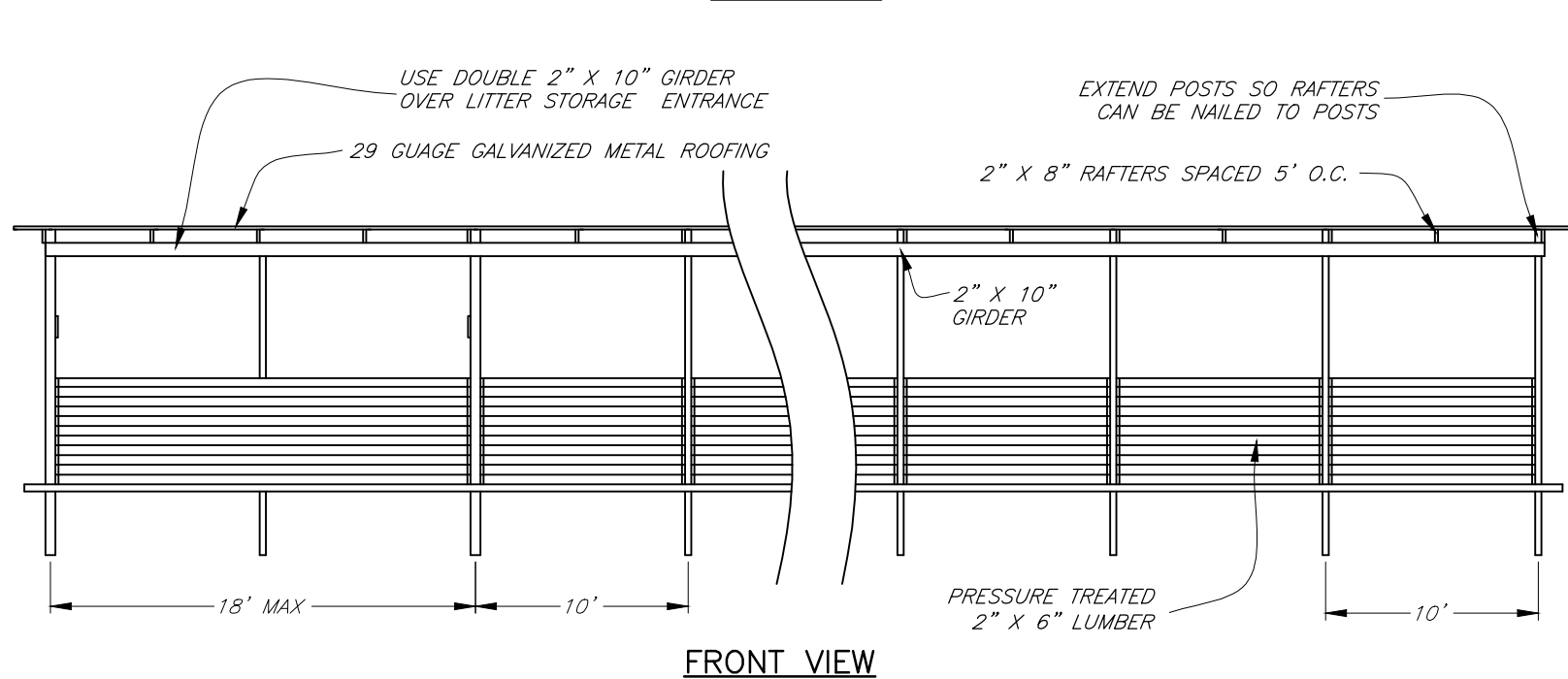
Drawing No.
Plan & Elevation

01/07/2013
Sheet 2 of 5

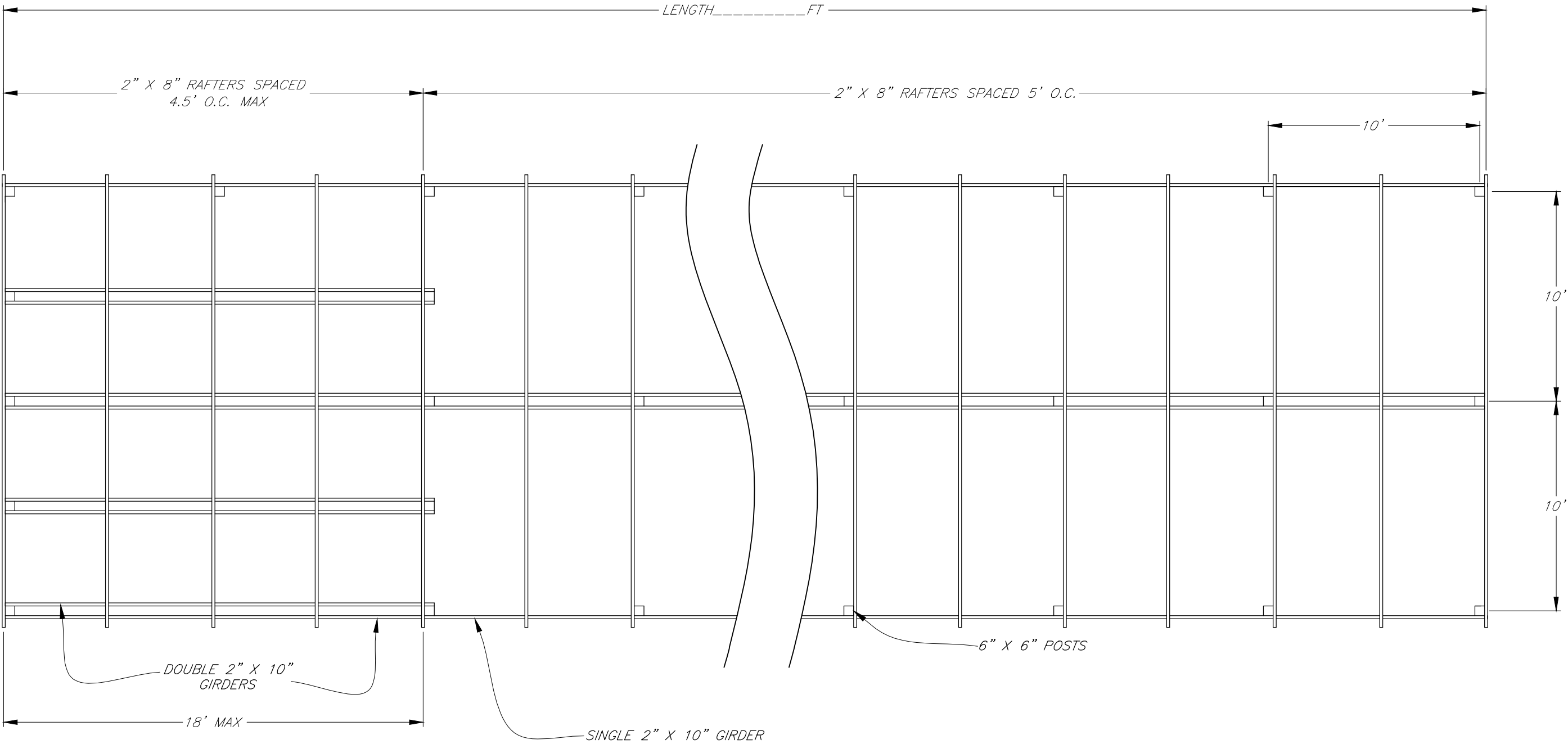


NOTES:

1. ALL ENTRANCE AREAS SHALL BE STABILIZED USING PRACTICE STANDARD 561 - HEAVY USE AREA.
2. ALL POSTS SHALL BE SET IN CONCRETE WITH CONCRETE OR GRAVEL FOOTING PAD (SEE CONCRETE POST FOOTING DETAIL ON SHEET 5).
3. THE BUILDING SITE SHALL BE CLEARED AND GRUBBED AS REQUIRED. PROPER DRAINAGE SHALL BE PROVIDED AROUND THE ENTIRE BUILDING SO THAT RUNOFF WATER DOES NOT ENTER OR POND NEAR BUILDING. DESIGN FOR ROOF RUNOFF IN ACCORDANCE WITH PRACTICE CODE 558 - ROOF RUNOFF MANAGEMENT OR STABILIZE SOIL AROUND BUILDING USING PRACTICE CODE 342 - CRITICAL AREA PLANTING.
4. CONCRETE FLOORS AND FOOTINGS SHALL BE PLACED ON FIRM SOIL. ALL LOOSE SOIL SHALL BE REMOVED. IF FILL MATERIAL IS USED, PLACE IN 9" THICK LAYERS AND COMPACT WITH SHEEPSFOOT ROLLER OR OTHER EQUIVALENT COMPACTION METHOD.
5. ALL LUMBER, INCLUDING THE POSTS, IN CONTACT WITH LITTER, COMPOST, OR CONCRETE SHALL BE PRESSURE TREATED (SEE WOOD TREATMENT TABLE ON SHEET 5).
6. ALL DIMENSION LUMBER SHALL BE SOUTHERN PINE NO. 2 OR BETTER.
7. ALL NAILS, BOLTS AND OTHER CONNECTORS SHALL BE OF HOT-DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE, OR COPPER. NAILS SHALL HAVE SPIRALED OR RINGED (ANNULAR) SHANKS. ALL REFERENCES TO "GALVANIZED" IN THIS SET OF DRAWINGS REFERS TO THE ABOVE LISTED COATINGS.
8. ROOFING SHALL BE 29 GAUGE GALVANIZED METAL. SEALANT SHALL BE APPLIED TO ALL LAPS.
9. ON SITE WATER SOURCE IS NECESSARY TO MAINTAIN MOISTURE CONTENT OF COMPOST.
10. CALL BEFORE YOU DIG: 811, 1-800-282-7411 OR 770-623-4344.



REVISIONS			
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09/05	H. MCFARLAND	STATE ENGINEER	
01/06	H. MCFARLAND	STATE ENGINEER	
07/07	H. MCFARLAND	STATE ENGINEER	
07/13	D. ROBERTS	ACTING STATE ENGINEER	



ROOF FRAMING PLAN

REVISIONS			
DATE	APPROVED	TITLE	
09/05	H. MCFARLAND	STATE ENGINEER	
01/06	H. MCFARLAND	STATE ENGINEER	
07/07	H. MCFARLAND	STATE ENGINEER	

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Drawing No.
Roof Plan

01/07/2013
Sheet 3 of 5



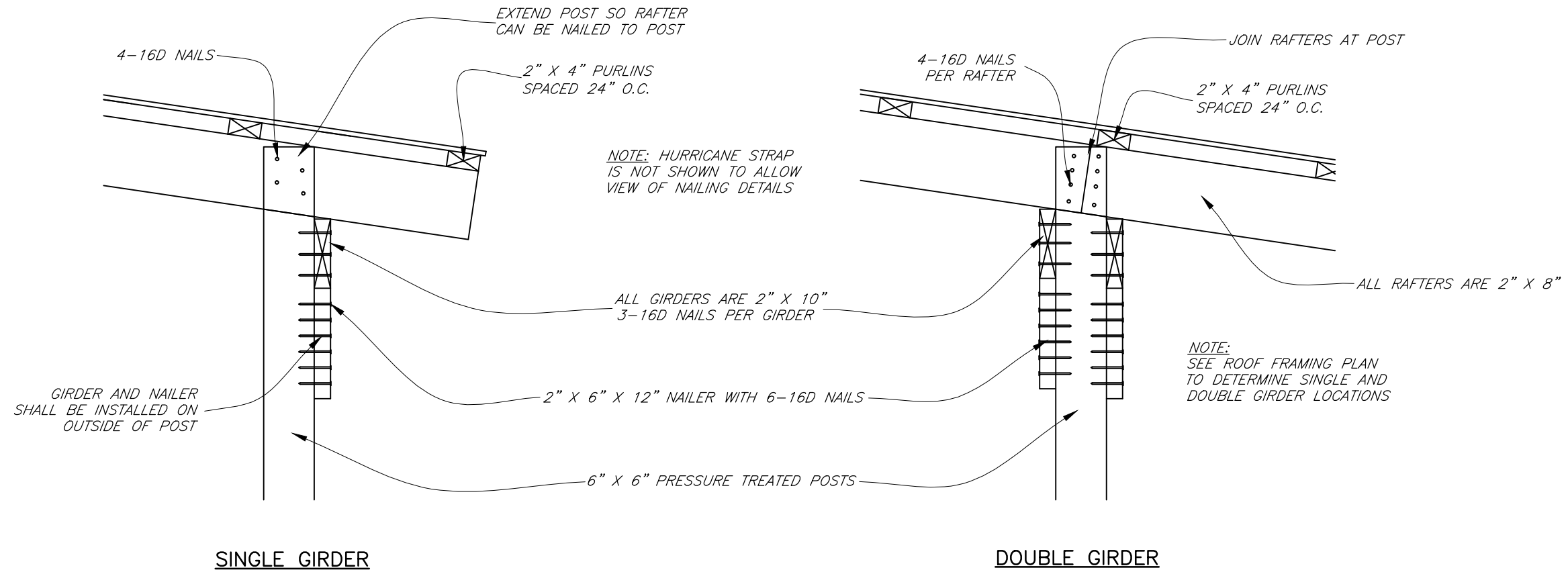
Natural Resources Conservation Service
United States Department of Agriculture

GEORGIA COMPOSTING FACILITY
(Stand Alone Structure with Deep Bins)

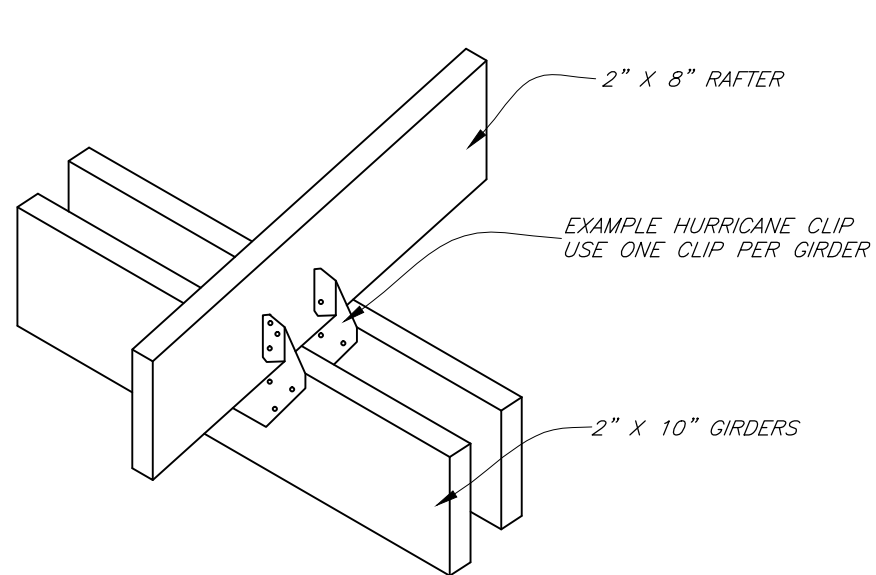
County, GA

Designed *W. Brown*
Drawn *S. Rogers*
Checked *J. Holloway*
Approved _____

Date *07/07*
07/07
07/07



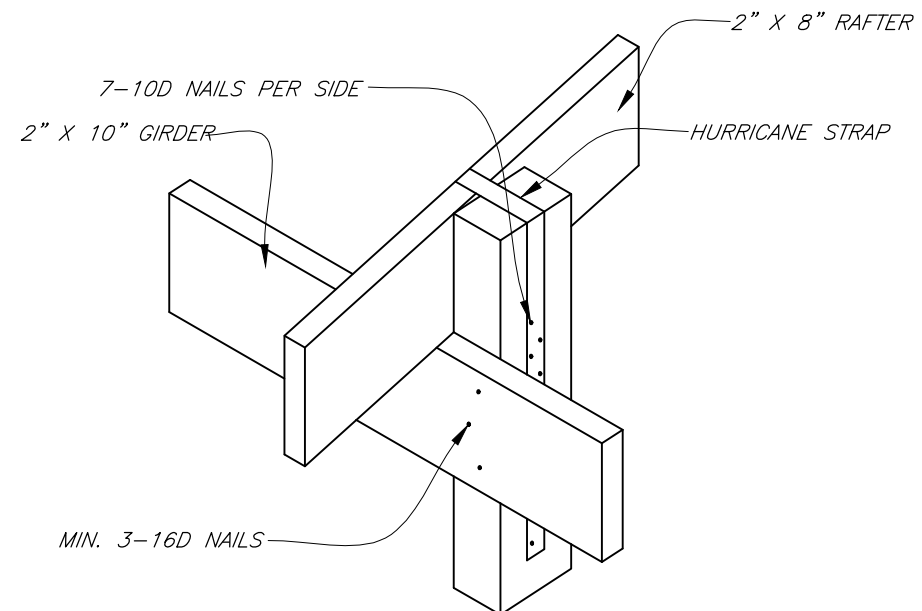
GIRDER AND RAFTER TO POST CONNECTIONS



HURRICANE CLIP
(USE AT RAFTER TO GIRDER
CONNECTIONS WITHOUT POSTS)

NOTES:

1. MINIMUM UPLIFT RESISTANCE FOR HURRICANE STRAP IS 746 LBS.
2. STRAP SHALL BE 2" OR WIDER. CENTER STRAP ON RAFTER TO RAFTER BUTT JOINTS ON CENTER POSTS.
3. USE MANUFACTURED HURRICANE CLIP FOR RAFTER TO GIRDER CONNECTIONS (WITHOUT POSTS). MINIMUM UPLIFT RESISTANCE IS 251 LBS PER CLIP. AN EXAMPLE IS SHOWN AT LEFT. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.



HURRICANE STRAP
(USE AT RAFTER TO GIRDER
CONNECTIONS WITH POSTS)

REVISIONS		
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09/05	H. MCFARLAND	STATE ENGINEER
01/06	H. MCFARLAND	STATE ENGINEER
07/07	H. MCFARLAND	STATE ENGINEER

Date	07/07
Designed	W. Brown
Drawn	S. Rogers
Checked	H. McFarland
Approved	J. Holloway

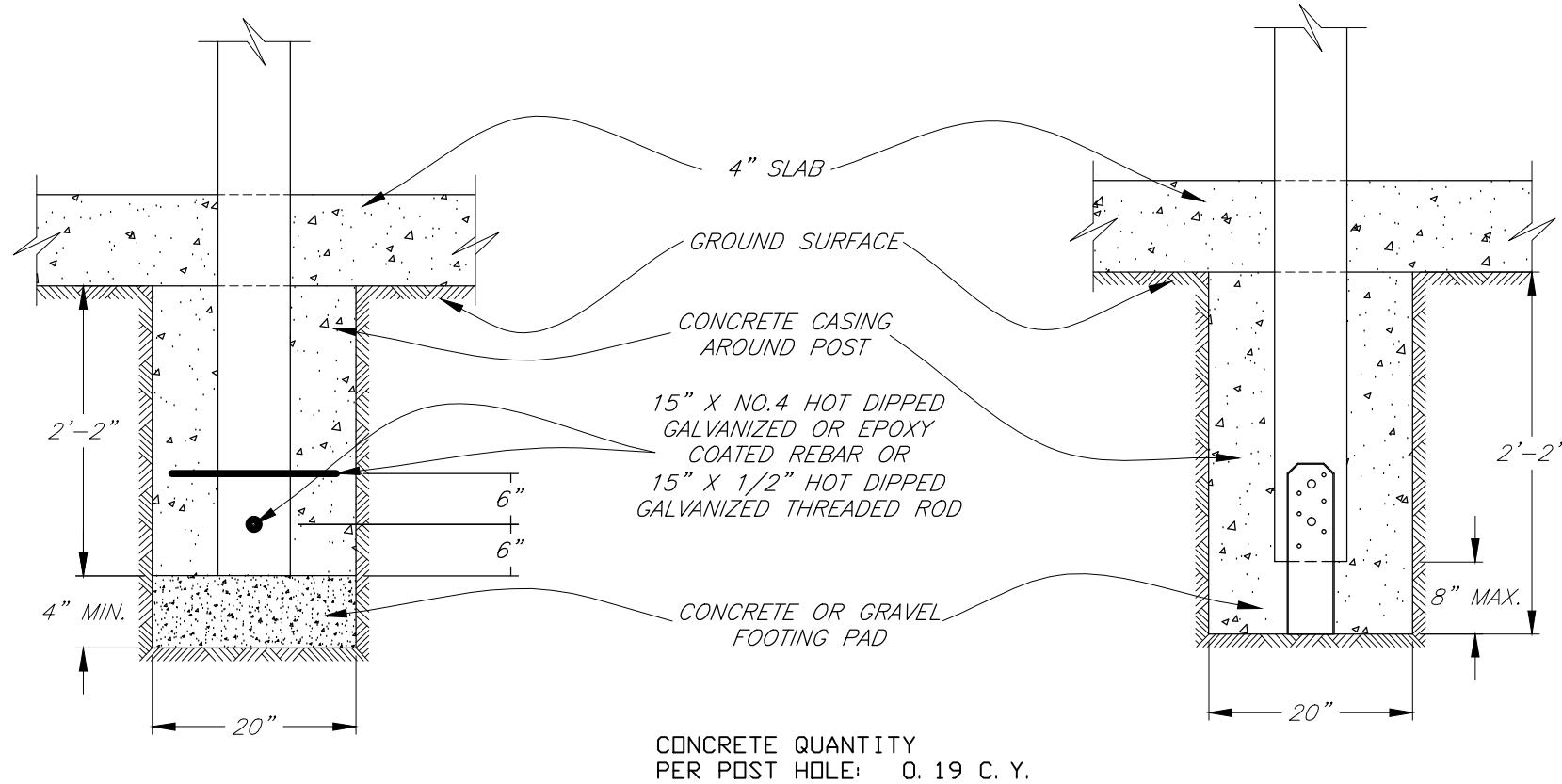
GEORGIA COMPOSTING FACILITY
(Stand Alone Structure with Deep Bins)



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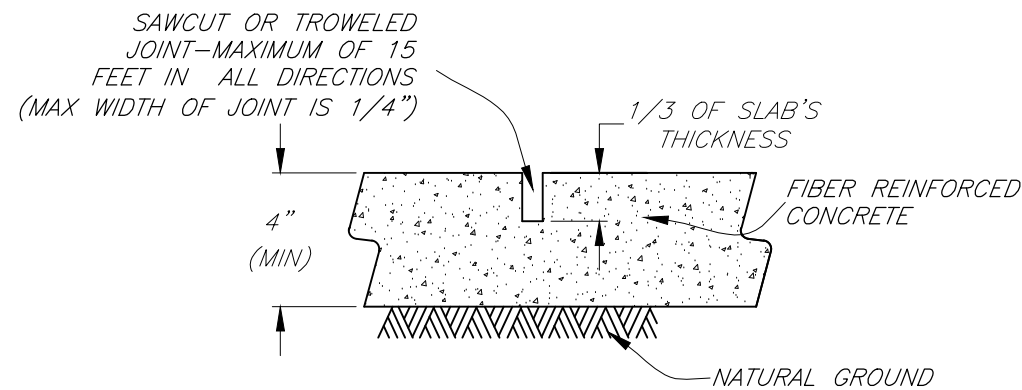
Drawing No.
Detail 1

01/07/2013
Sheet 4 of 5



CONCRETE POST FOOTING DETAIL

MECHANICAL POST ANCHOR CONCRETE FOOTING DETAIL



FIBER REINFORCED CONTRACTION JOINT

NOTES:

1. EXAMPLE CONNECTOR SHOWN AT LEFT.
2. MINIMUM UPLIFT RESISTANCE REQUIRED IS 1574 LBS.
3. INSTALL ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
4. CONNECTOR SHALL BE GALVANIZED.
5. REBAR OR MECHANICAL POST ANCHOR REQUIRED FOR FULL POSTS ONLY.
6. MECHANICAL POST ANCHOR MAY BE USED INSTEAD OF REBAR.

WOOD TREATMENT TABLE

MINIMUM RETENTION RATES IN PCF					
USE	CCA	ACQ-C/D	CBA-A	CA-B	MCA
GROUND CONTACT OR FRESH WATER	0.40	0.40	0.41	0.21	0.15
IMPORTANT STRUCTURAL MEMBERS	0.60	0.60	0.61	0.31	0.23

CCA - CHROMATED COPPER ARSENATE
 ACQ-C/D - ALKALINE COPPER QUATERNARY
 CBA-A & CA-B - COPPER AZOLE
 MCA - MICRONIZED COPPER AZOLE

NOTES:

1. ALL WOODEN WALLS, HALF POSTS, AND BIN FRONT WOOD SHALL MEET THE GROUND CONTACT RATES.
2. ALL SUPPORT POSTS SHALL MEET THE IMPORTANT STRUCTURAL MEMBER RATES.

Date 07/07
 Designed W. Brown
 Drawn S. Rogers
 Checked H. McFarland
 Approved J. Holloway

GEORGIA COMPOSTING FACILITY
 (Stand Alone Structure with Deep Bins)

NRCS
 Natural Resources Conservation Service
 United States Department of Agriculture

File No.
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Drawing No.
 Detail 2

01/07/2013
 Sheet 5 of 5

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07/07	H. MCFARLAND	STATE ENGINEER
10/10	J. HOLLOWAY	STATE ENGINEER